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22434 75	08/09/2005		EXAMINER .	
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OAKLAND, CA 94612-0250			ART UNIT	PAPER NUMBER
			. 2194	

DATE MAILED: 08/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summers	09/477,169	STERN, DONALD			
Office Action Summary	Examiner	Art Unit			
The MAILING DATE of this communication app	Diem K. Cao	2194			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 Responsive to communication(s) filed on 18 May 2005. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
4) ⊠ Claim(s) 1, 3-7, 10-41 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) 1,3-7,18-28,34 and 35 is/are rejected. 7) ☒ Claim(s) 10-17,29-33,36-41 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the order	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

1. Claims 1, 3-7 and 10-41 are pending in the application.

Allowable Subject Matter

1. Claims 10-17, 29-33, and 36-41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 3-4, 6-7, and 18-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (U.S. 5,448,735) in view of Munro (Writing DLLs for Windows using Visual Basic, part 1).
- 4. As to claim 1, Anderson teaches determining one or more code modules to be executed (a task is a data ... one or more module; col. 6, line 64 col. 7, line 32), wherein the one or more code modules are one or more library routines (modules may be either programmed ... library routines, col. 17, lines 26-38), ascertaining a hierarchical order in which the one or more code modules are to be executed (the modules in a task are grouped in the appropriate order; col. 7,

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lines 6-19), loading the one or more code modules to be executed (load and connect modules in the desired arrangement; col. 7, lines 21-32 and client loads module; col. 9, lines 26-50), and building a chain connecting the one or more code modules such that the one or more code modules will automatically execute in the hierarchical order when a first one of the one or more code modules is executed (A DSP task such as 611 ... by the module; col. 16, line 58 - col. 17, line 46), wherein each of the code modules responsible for calling a next one of the code modules in the chain includes a reference to the next one of the code modules in the chain (the control of execution flow within task may be accomplished by placing references in each module to subsequent modules; col. 19, line 18-30), wherein an address in memory at which the next one of the code modules in the chain is loaded is associated with the reference to the next one of the code modules in the chain (linked using pointers wherein pointer is a variable that contains the address of a location in memory; col. 17, line 62 - col. 18, line 7), wherein the chain does not include a main program (a task is a data structure ... DSP modules; col. 7, lines 6-8, The modules are all related functions... heading; col. 17, lines 4-8, task datum 1201 and its associated module data ... PhoneMan; col. 17, lines 48-50. Though, Anderson teaches the chain includes only modules which maybe purchase from the off the shelf), and wherein building a chain enables the one or more code modules to execute without requiring a main program responsible for calling the one or more code modules (task datum 1201 ... 1205; col. 17, line 48 - col. 18, line 7).

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5. However, Anderson does not teach the one or more code modules are one or more DLLs.

Munro teaches DLLs are special libraries that load into memory only once at run-time (page 1).

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- 6. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Anderson and Munro because the advantages of DLLs are well known because DLLs can be loaded only once and used by many applications, and the DLLs can call external functions.
- 7. As to claim 3, Anderson teaches the loading step is performed simultaneous with the building step (DSP modules are ... its function; col. 7, lines 20-32 and to execute module 500; col. 9, lines 25-50).
- 8. As to claim 4, Anderson teaches building a chain is performed such that the one or more code modules can be modified without requiring recompilation of the one or more code modules (The actual executable routine required ... code modules 1202-1205; col. 17, line 67 col. 18, line 7).
- 9. As to claim 6, Anderson does not explicitly teach determining one or more code modules to be executed comprises determining one or more code modules to be executed to complete configuration of a hardware interface of a router. Anderson teaches determining one or more code modules to be executed to creating tasks for a device (DSP device, real-time task list and share task list; col. 9, line 51 col. 11, line 7). It would have been obvious to apply the teaching of Anderson to configuration a hardware interface of a router because it provides an efficient means for task organization which groups tasks by functions.

- 10. As to claim 7, see rejection of claim 6 above.
- 11. As to claim 18, Anderson teaches the device is coupled to a bus and resides on the main system logic board (col. 9, line 51-67), and each task has a starting point (Fig. 6) for execution, and associating one of the one or more code modules with a hardware interface to identify a starting point for execution upon occurrence of an interrupt (col. 19, line 65 col. 20, line 32).
- 12. As to claim 19, it corresponds to the method claim of claim 1. Anderson further teaches a method of configuring a hardware device (create tasks for client and device managers; col. 6, lines 36-61 and configure a phone answering machine task; col. 17, line 48 col. 18, line 27).
- 13. As to claim 20, see rejection of claim 18 above.
- 14. As to claim 21, see rejection of claim 7 above.
- 15. As to computer product claim 22, it corresponds to the method claim of claim 1.
- 16. As to claims 23-24, see rejections of claims 3-4 above.
- 17. As to computer system claim 25, it corresponds to the method claim of claim 1. Anderson further teaches (col. 4, line 51 col. 5, line 54) a processor (a processor 102), and a memory (a

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random access memory).

18. As to claim 26, Anderson teaches the address in memory at which the next one of the code modules in the chain is loaded is included in each of the code modules responsive for calling the next one of the code modules in the chain (1202 through 1205 ... linked using pointers ... will be referred to in fields contained with each of the data structure elements; col. 17, lines 48 - col. 18, line 7).

- 19. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (U.S. 5,448,735) in view of Munro (Writing DLLs for Windows using Visual Basic, part 1) further in view of Crick et al. (U.S. 5,781,797).
- 20. As to claim 5, Anderson does not explicitly teach loading the one or more code modules is performed in a reverse order of the hierarchical order. Crick teaches loading the one or more code modules are performed in a reverse order of the hierarchical order (The driver configuration ... last load table entry; col. 5, lines 29-31). It would have been obvious to apply the teaching of Crick to the system of Anderson because it provides a method for the system to know the location/address of loaded software modules.
- 21. Claims 27-28 and 34-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (U.S. 5,448,735) in view of Munro (Writing DLLs for Windows using Visual Basic, part 1) further in view of Mattson, Jr. (U.S. 6,317,870 B1).

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22. As to claim 27, Anderson teaches modules are linked using pointers, or referenced in

some other manner well known to those skilled in the art (col. 17, line 64 - col. 18, line 3).

However, Anderson does not teach a conditional branch or jump statement includes the reference

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to the next one of code modules in the chain and the address in memory at which the next one of

the code modules in the chain is loaded. Mattson teaches a conditional branch statement includes

the reference and the address in memory at which the code module is loaded (branch (PC' +

DISP'); Fig. 5A and Fig. 5B). It would have been obvious to apply the teaching of Mattson to the

system of Anderson because it provides a method to move to different section of code in the

program.

23. As to claim 28, Anderson does not teach the conditional branch or jump statement is

executed when the next one of the code modules in the chain identified in the conditional branch

or jump statement is executed. Mattson teaches the conditional branch or jump statement is

executed when the next one of the code modules in the chain identified in the conditional branch

or jump statement is executed (branch directly to the target function; col. 5, lines 43-65). It

would have been obvious to apply the teaching of Mattson to the system of Anderson because it

provides a method to move to different section of code in the program.

24. As to claim 34, see rejection of claim 27 above.

25. As to claim 35, see rejection of claim 28 above.

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Response to Arguments

2. Applicant's arguments filed 5/12/2005 have been fully considered but they are not persuasive.

In the remarks, Applicant argued in substance that (1) Anderson does not teach DLLs, (2) Munro teaches away from the instant application because Munro teaches a main module is implemented, and the user of a linker is implemented to pull together the various modules, thus, Munro teaches away from creating a chain of code modules for execution, (3) neither references teach the disadvantage of calling DLLs from a main program, (4) it is not obvious to apply the task organization features of Anderson to configure a hardware interface of a router and (5) Anderson fails to suggest or teach using tasks to configure an interface of one of the devices or to execute the modules upon occurrence of an interrupt.

Examiner respectfully traverses Applicant's arguments:

- As to the point (1), Anderson teaches the code modules, wherein the code modules are executable programs (col. 16, lines 65-66), and may be either programmed by the application programmer or may be obtained as off-the-shelf library routines (col. 17, lines 33-35). Munro teaches the DLLs is a better type of library than the original library as taught in the reference of Anderson. Therefore, one of ordinary skill in the art would be motivated to improve the system of Anderson by using DLLs instead of the off-the-shelf library because of its advantage as set forth in the reference of Munro.

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- As to the point (2), the reference of Munro is used to teach the advantage of Dynamic Link Library over the original library, the limitation "creating a chain of modules" is taught by Anderson, not Munro.
- As to the point (3), in response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., page 2, lines 3-19) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Applicant should include those features in the claims for consideration.
 - As to points (4) and (5), see previous Office actions for examiner position.

Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Diem K. Cao whose telephone number is (571) 272-3760. The

examiner can normally be reached on Monday - Friday, 5:30AM - 1:00PM, Saturday, 5:30AM -

10:30AM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner for Patents

PO Box 1450

Alexandria, VA 22313-1450

Any inquiry of a general nature or relating to the status of this application should be

directed to the TC 2100 Group receptionist at 571-272-2100.

Due to the realignment of WG 2120, effective March 20, 2005, AU 2126 will become

AU 2194.

Diem Cao

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2903